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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/881,748	06/18/2001	Kunio Shiota	04853.0074	8762
22852	7590 12/11/2006		EXAMINER	
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 901 NEW YORK AVENUE, NW			LIN, JERRY	
			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20001-4413			1631	
			DATE MAILED: 12/11/2000	6

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s) Advisory Action 09/881.748 SHIOTA ET AL. Before the Filing of an Appeal Brief Examiner **Art Unit** Jerry Lin 1631 --The MAILING DATE of this communication appears on the cover sheet with the correspondence address --THE REPLY FILED 20 November 2006 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. 1. A The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods: The period for reply expires <u>3</u> months from the mailing date of the final rejection. The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. Examiner Note: If box 1 is checked, check either box (a) or (b), ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL 2. The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a). **AMENDMENTS** 3. 🔲 The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because (a) They raise new issues that would require further consideration and/or search (see NOTE below); (b) They raise the issue of new matter (see NOTE below); (c) They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or (d) They present additional claims without canceling a corresponding number of finally rejected claims. NOTE: _____. (See 37 CFR 1.116 and 41.33(a)). 4. The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324). 5. Applicant's reply has overcome the following rejection(s): ___ 6. Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s). 7. 🗵 For purposes of appeal, the proposed amendment(s): a) 🔲 will not be entered, or b) 🗵 will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: 6,8,9 and 19-23. Claim(s) withdrawn from consideration: . AFFIDAVIT OR OTHER EVIDENCE 8. The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e). 9. The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1). 10. The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached. REQUEST FOR RECONSIDERATION/OTHER 11. The request for reconsideration has been considered but does NOT place the application in condition for allowance because:

13. Other: ____.

See continuation.

12. Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s).

Continuation Sheet (PTO-303)

Application No.

Continuation of Note 7 and 11:

The Applicants have first responded to the rejection made under 35 U.S.C §112 by stating that the claims are drawn to determining the differentiation state-specific DNA methylation pattern of a stem cell, and the instant claims are not drawn to a differentiated stem cell. However, the preamble to claim 8 states "identifying the differentiation state of a test stem cell" In order to determined the differentiation state of a stem cell, that stem cell must necessarily be differentiated. It is unclear how the Applicant are proposing to determine the differentiation state-specific DNA methylation pattern if the cell they are studying is not differentiated.

The Applicants have also responded to this rejection by stating the cited reference does not speak for the art. To further support the reference, the Examiner has provided definitions from the National Institutes of Health (NIH). In describing how to culture embryonic stem cells, the NIH states, "Scientists inspect the cultures through a microscope to see that the cell look healthy and remain undifferentiated." (http://stemcells.nih.gov/info/basics/basics3.asp) In defining adult stem cells, the NIH states, "An adult stem cell is an undifferentiated cell found among differentiated cells in a tissue or organ" (http://stemcells.nih.gov/info/basics4.asp). Clearly, it is accepted in the art that stem cells are undifferentiated cells.

Since the specification does not explicitly define a stem cell, the Examiner must look to the art and use the definition provided in the art. The definitions provided by Potten et al. and the NIH are certainly accepted definitions by one of skill in the art.

The Applicants also argue that the specification provides guidance on how to create a differentiated stem cell. However, the Examiner is stating that, by definition, a stem cell cannot be differentiated and thus one of skill in the art is not enabled to create a differentiated stem cell.

The rejection made uner 35 U.S.C. §112 is maintained for reasons of record.

MICHAEL BORIN, PH.D. PRIMARY EXAMINER